

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (currently amended) An element for ascertaining radiation dosage comprising:
a support on which is disposed a coated layer, said coated layer comprising a binder, ~~and alanine~~, and an additive, wherein the additive includes amorphous silica, alumina, a surfactant, or a combination thereof; and
wherein the alanine, upon exposure to ionizing radiation, produces radicals that remain stable for long periods of time.
2. (original) The element of claim 1 wherein the alanine is in crystalline form.
3. (original) The element of claim 1 wherein a surface of the support is entirely or partially covered by the coated layer.
4. (original) The element of claim 1 wherein the support is flexible.
5. (original) The element of claim 1 wherein the support is a polyethylene film, a polyamide film, a polyimide film, , a polypropylene film, a polycarbonate, a cellulosic support, or a polyester support.
6. (original) The element of claim 1 wherein the support is ordinary paper, processed paper, coated paper, art paper, baryta paper, or resin-coated paper.
7. (original) The element of claim 1 wherein the support is between 2 and 14 mils. in thickness.
8. (original) The element of claim 1 wherein the support is between 6 and 10 mils. in thickness.

9. (original) The element of claim 1 wherein the support is clear polyester.
10. (original) The element of claim 1 wherein at least one side of the support has an adhesion promoting layer.
11. (original) The element of claim 2 wherein the crystalline alanine comprises particles less than 100 microns in size.
12. (original) The element of claim 2 wherein the crystalline alanine comprises particles between 1 and 40 microns in size.
13. (original) The element of claim 1 wherein the binder is an elastomeric binder with a high coefficient of elasticity.
14. (original) The element of claim 1 wherein the binder is a solvent soluble polyester, a vinyl elastomer, or a polyurethane.
15. (original) The element of claim 1 wherein the binder is an ethylene-vinylacetate copolymer, an alkyl methacrylate or an acrylates with more than 3 carbon atoms.
16. (original) The element of claim 1 wherein the binder is an aromatic polyurethane or an aliphatic polyurethane.
17. (original) The element of claim 1 wherein the binder is between 10 and 80 weight percent of the final layer.
18. (original) The element of claim 1 wherein the binder is between 35 and 50 weight percent of the final layer.
- 19 - 20. (cancelled)

21. (currently amended) The element of claim ~~20~~ 1 wherein the additive comprises amorphous silica or alumina, and the additive is present in amounts from 0.1 to 5% of the weight of the alanine.

22. (currently amended) The element of claim ~~19~~ 1 wherein the additive is silica at levels from 0.25-1% by weight of the alanine.

23. (currently amended) The element of claim ~~19~~ 1 wherein the additive is a surfactant.

24. (original) The element of claim 23 wherein the surfactant is present in amounts from 0.01-1% weight % of the alanine-containing dispersion.

25. (original) The element of claim 1 wherein the coated layer is between 100 and 200 microns thick.

26. (original) The element of claim 1 wherein the coated layer is between 125 and 175 microns thick.

27. (original) The element of claim 1 further comprising a protective overcoat.

28. (currently amended) A coating solution comprising a solvent carrying alanine particles, ~~and~~ a binder, and an additive, said solution being used to coat substrate to produce a dosimeter for ascertaining local ionizing radiation, wherein the additive includes a surfactant, amorphous silica, alumina, or a combination thereof.

29. (currently amended) The ~~element of claim 1~~ coating solution of claim 28 wherein the solvent is a ketone, an alcohol, an acetate, or a chlorinated solvent.

30. (currently amended) The ~~element of claim 1~~ coating solution of claim 28 wherein the solvent is acetone, methylene chloride, or mixtures of methylene chloride and methanol.